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OM protein - protein search, using sw model

Run on: August 19, 2003, 15:21:35 ; Search time 36 Seconds

(without alignments)
552.801 Million cell updates/sec

Title: US-09-494-297-2

Sequence: 1 MKKTRFPNKLTNTQRYLS.....IAGISLGIMGHTIRIKHD 757

Scoring table:

BLOSUM62

Searched: 125328 seqs, 26289065 residues

Total number of hits satisfying chosen parameters: 125328

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Pending_Patents_AA_New:*
1: /cgn2_6/ptodata/2/paa/PC1_NEW_COMB.pep:*
2: /cgn2_6/ptodata/2/paa/US06_NEW_COMB.pep:*
3: /cgn2_6/ptodata/2/paa/US07_NEW_COMB.pep:*
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5: /cgn2_6/ptodata/2/paa/US09_NEW_COMB.pep:*
6: /cgn2_6/ptodata/2/paa/US10_NEW_COMB.pep:*
7: /cgn2_6/ptodata/2/paa/US60_NEW_COMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|-------|-------------|--------|-------|---------------------|
| 1 | 149 | 3.8 | 1315 | 5 | US-09-200-650E-5 |
| 2 | 142 | 3.6 | 930 | 6 | US-10-615-383-10 |
| 3 | 134.5 | 3.4 | 1769 | 6 | US-10-617-320-3676 |
| 4 | 134 | 3.4 | 560 | 6 | US-10-333-002-19 |
| 5 | 131.5 | 3.3 | 1531 | 1 | PCT-US02-37235-44 |
| 6 | 131 | 3.3 | 1456 | 1 | PCT-US03-22113-30 |
| 7 | 130 | 3.3 | 5198 | 6 | US-10-346-863-34 |
| 8 | 129 | 3.3 | 461 | 7 | US-60-490-890-1651 |
| 9 | 128 | 3.2 | 993 | 6 | US-10-286-897-2582 |
| 10 | 128 | 3.2 | 993 | 6 | US-10-258-898A-2582 |
| 11 | 128 | 3.2 | 1090 | 6 | US-10-408-765A-2576 |
| 12 | 128 | 3.2 | 1375 | 1 | PCT-US03-06962-35 |
| 13 | 126 | 3.2 | 1342 | 1 | PCT-US03-22113-3 |
| 14 | 125.5 | 3.2 | 930 | 5 | US-09-200-650E-3 |
| 15 | 125.5 | 3.2 | 1972 | 6 | US-10-617-320-3251 |
| 16 | 124 | 3.1 | 638 | 5 | US-09-674-546A-2161 |
| 17 | 124 | 3.1 | 867 | 5 | US-09-674-546A-2167 |
| 18 | 124 | 3.1 | 2142 | 6 | US-10-603-108-3459 |
| 19 | 123.5 | 3.1 | 1358 | 6 | US-10-326-956-1099 |
| 20 | 123 | 3.1 | 980 | 6 | US-10-326-956-539 |
| 21 | 123.5 | 3.1 | 437 | 6 | US-10-163-106B-32 |
| 22 | 122 | 3.1 | 702 | 6 | US-10-326-956-2263 |
| 23 | 121.5 | 3.1 | 640 | 6 | US-10-603-113-1883 |
| 24 | 121.5 | 3.1 | 3509 | 6 | US-10-273-573-8544 |
| 25 | 120.5 | 3.1 | 810 | 6 | US-10-603-113-20281 |
| 26 | 120.5 | 3.1 | 903 | 6 | US-10-333-002-10 |

| | | | | | | |
|----|-------|-----|------|---|---------------------|-------------------|
| 27 | 120 | 3.0 | 731 | 6 | US-10-603-113-18075 | Sequence 18075, A |
| 28 | 120 | 3.0 | 803 | 6 | US-10-603-114-4886 | Sequence 4886, Ap |
| 29 | 120 | 3.0 | 951 | 7 | US-60-490-890-1772 | Sequence 1772, Ap |
| 30 | 120 | 3.0 | 1312 | 6 | US-10-286-897-2112 | Sequence 2112, Ap |
| 31 | 120 | 3.0 | 1312 | 6 | US-10-258-898A-2112 | Sequence 2112, Ap |
| 32 | 120 | 3.0 | 1554 | 1 | PCT-US03-06962-38 | Sequence 38, Appl |
| 33 | 120 | 3.0 | 1886 | 1 | PCT-US02-39397-135 | Sequence 135, App |
| 34 | 120 | 3.0 | 1899 | 1 | PCT-US02-39397-132 | Sequence 132, App |
| 35 | 120 | 3.0 | 2662 | 6 | US-10-273-573-8548 | Sequence 8548, Ap |
| 36 | 119.5 | 3.0 | 581 | 6 | US-10-603-113-15405 | Sequence 15405, A |
| 37 | 119 | 3.0 | 527 | 6 | US-10-603-113-15917 | Sequence 15917, A |
| 38 | 119 | 3.0 | 1019 | 6 | US-10-613-520-2128 | Sequence 2128, Ap |
| 39 | 119 | 3.0 | 2986 | 6 | US-10-273-573-8550 | Sequence 8550, Ap |
| 40 | 119 | 3.0 | 4766 | 6 | US-10-273-573-8539 | Sequence 8539, Ap |
| 41 | 119 | 3.0 | 4768 | 6 | US-10-273-573-8549 | Sequence 8549, Ap |
| 42 | 119 | 3.0 | 5367 | 6 | US-10-273-573-8547 | Sequence 8547, Ap |
| 43 | 118.5 | 3.0 | 796 | 6 | US-10-326-956-1821 | Sequence 1821, Ap |
| 44 | 118.5 | 3.0 | 1347 | 6 | US-10-408-765A-1228 | Sequence 1228, Ap |
| 45 | 118.5 | 3.0 | 1742 | 6 | US-10-615-383-4 | Sequence 4, Appl |

ALIGNMENTS

RESULT 1

US-09-200-650E-5

Sequence 5, Application US/09200650E

GENERAL INFORMATION:

APPLICANT: Patil, Joseph M.

APPLICANT: Foster, Timothy J.

APPLICANT: Hook, Magnus A.O.

APPLICANT: Edidin, Deirdre N.

APPLICANT: Perkins, Samuel L.

TITLE OF INVENTION: Extracellular Matrix-Binding Proteins from *Staphylococcus aure*

FILE REFERENCE: P06283052/BAS

CURRENT APPLICATION NUMBER: US/09/200,650E

CURRENT FILING DATE: 1998-11-25

PRIOR APPLICATION NUMBER: 60/066,815

PRIOR FILING DATE: 1997-11-26

PRIOR APPLICATION NUMBER: 60/098,427

PRIOR FILING DATE: 1998-08-31

NUMBER OF SEQ ID NOS: 23

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO: 5

LENGTH: 1315

TYPE: PRT

ORGANISM: *Staphylococcus aureus*

US-09-200-650E-5

Query Match

Best Local Similarity 3.8%; Score 149; DB 5; Length 1315;

Matches 203; Conservative 93; Mismatches 336; Indels 372; Gaps 45;

8 NKLNTLNTQRYLSKNS--KRTVTLVGYELMIFALVTSMGAKYFGVESSTP-----59

208 NSNNNNMDIILPKRTAKRLNTR-----MRIAANQPSSTKANNNDLITSFTLLTVDA 262

60 ---NAINP--DSSSEYRWYGESYRGHPYKQFVAHDLRVNLEGSNSYQYCFNLKA 114

263 DKNKIVPAODYLSLSQITVDDKVSQDYF-----TIKYSPTVOYVGLNPEDI 311

115 FPLGS---DSSVKKWYKKHGS---ISTKFPDYAMSPRITGDELNQLRAVMNGH---163

312 KNIGIKDPNNGETITATKHDHANNLLITYTFDYV-----DRNSVQMGINYSIYMDA 364

164 ---PONANGIMEGLEPLAIRYTOEAWVYSDNAPISNDESFKESESNTL-----211

365 DTIPYSKNDVEENVTIGMTTKTNTANIQYDPYVVEKKSIGSAFTETVSHQNKRENPY 424

212 ---VSTQSLSMRQALK---QLIDPNLATKMKQYVDDFQLSIFESEDKGDKYKNGY 262

425 KOTIVVNSSENSITNAKLKVOAYHSSYPNNIGQINKVDYD---IKIYO-VPRGYTLNKG 480

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QY 263 QNLSSGLVPTKPTPPDPPMPNPQPTSVLRKKAIGDYSK----- 305
D 481 D-----VMTKELT-----DVTNQYLQKITYGNNNSAVIDFGNADSAVYVMN 522
QY 306 -----LLEGATLQTLGTD----- 319
D 523 TKFOYTNSESPPLVQAMTLLSTSGNKSYSVTGNALGFTNNQSGAGQEVYKIGNYWMEDTNK 582
QY 320 NSFO-----ARFSSN---DIGERIELSDGYTTLTEL-----NSPAGYS 355
D 583 NGVQELGEKGVGVNTYVFDNNTNTKYGVAETKEDGSLIPNLPNGDYRVEFSNLPKGYE 642
QY 356 IAE----- 358
D 643 VTFSGKQNNNEELDSGLSVITVNGKDNLSADLGITYPKRYNLGDYWMEDTNKNGIODDE 702
QY 359 -----PIITKVAGKYY-----TIDCK-----QIENPNKEI-----VEPIYEAANDF 397
D 703 KGISGVYVTLKDNENGLKTVTTDADGKRYFTDLDMGNKYKVEFTTPEGYTPPTVTSGSDI 762
QY 398 EEFSS-VLTTONY-----AKFYAKKNGSSOVYCFNADLSPPDSED---GGKT 443
D 763 EKSNGLITTTGVINGADNMTLDSGFYKTPRYNLGNVYMEDTNKDCKO--DSTEGISGVT 820
QY 444 MPEFTTGEVYTHIAGRD-LFKRYTKPRDTPDPTFLKHKIYIEKGYREKGOALEY--- 499
D 821 VTLKNGEVLQTTKTDKDKGYQFT-----GLENGTYKVEETP 859
QY 500 SGLTEFQRLRAQTLAT-YTTFDSAELDKK-----LKDY-----HGF 536
D 860 SGTTPVOVSGTDEGIDSNSTGTGAKDKDNPTIDSGFYKPTYNLGDYWMEDTNKNGVQ 919
QY 537 DMDNSTLAVN-----KILVEYADSNP-QLTDLDFIPNNKYSGLSTQWHPED 586
D 920 DKREKIGSGTYVTLKDNENGLKTVTTDEKGYQFTDL-----NNGYK----- 963
QY 587 LVDIIRMEDKEVTP-VTHNLTLRK-----TVTGL---AGDRKDFHEFIEIKNNKQEL 636
D 964 ---VEFETPSGYTPTSVTSNGNDEKDSNGLTTTGVIKDADNMTLDSGF---YKTPKYSL 1016
QY 637 -----LSQTVTDTNLEFKDKKATINLKHGESLTLQGLPEGYSYLVEKTSQKVK 689
D 1017 GDYVWYDSNKGDKODSTEGIKDYKVTLLNEKEGEVIGTWTYDENGKTCFDPNLDGKYKVT 1076
QY 690 VNSQEVANATVSKTGITSETTLAFENNKPEVPTGYDOKI-NGY 732
D 1077 F--EKPAGLTQCTNTTEDDKDADGGEVDVTIHDHDFITLNGY 1118

RESULT 2
US-10-615-383-10
; Sequence 10, Application US/10615383
; GENERAL INFORMATION:
; APPLICANT: FOSTER, Timothy
; TITLE OF INVENTION: POLYPEPTIDES AND POLYNUCLEOTIDES FROM COAGULASE-NEGATIVE STAPHYLOCOCCUS
; FILE REFERENCE: P0633503/BAS
; CURRENT FILING DATE: 2003-07-09
; PRIOR FILING DATE: 1999-01-25
; PRIOR APPLICATION NUMBER: 09/386,962
; PRIOR FILING DATE: 1999-08-31
; PRIOR APPLICATION NUMBER: 60/098,443
; PRIOR FILING DATE: 1998-08-31
; PRIOR APPLICATION NUMBER: 60/117,119
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 10
; LENGTH: 930
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
US-10-615-383-10
Query Match 3.68; Score 142; DB 6; Length 930;

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Best Local Similarity 18.6%; Pred. No. 0.039;
Matches 161; Conservative 131; Mismatches 295; Indels 278; Gaps 42;

QY 9 KINTLNTQR--VLSKNK-----RFTYLVGVFLMIFALYSMTGAKTVGL-----VES 56
D 2 KNNLLTKRKRPINKSKYAIRKFTYGTASI-----VIGALLFGLIGNEAKAE 51
QY 57 STFNALNPDSSEVRWVGESYVRGHPYQFRAVHDLRYNLGSRSGYQYCFNLKAPF 116
D 52 NTYQDYK-DSNMD-----DELSDNSQSSNEKND---YLNQGSIN 89
QY 117 LGSDDSVYK--WYKHDGISRKFEDYAMS-----PRITGELNOKLRAVYNGH 163
D 90 TDDDNQIKREETSNDIAENRSKDIOSTTNVDENEAFTLOKTPQDQTKEREVYEPSS 149
QY 164 PQNANGIMELEPLNARIQTQEAIVWYSDAPLISN-PDEFKRESBNLSTQSLSMRQ 222
D 150 VESSNSSMDYAOOPSHTTINSEASIOISDNEENSRVSDFANSKTIIESNTSEKNEENTIEQ 209
QY 223 ALKQILDPLNLATKMPKQVPPDPOLSIFESBDKGDYKGYQNLSSGLVPTKPTPPDPP 282
D 210 -----PKVRDSTISQPSSTKINIDEKISNODELLN---LPINEXKVRP 252
QY 283 MPN--QPOTSVLIRKRYALGDYSKLEGATLQTLGDVNSVFOQARVSSNDIGERIELSD 340
D 253 LSTTSAPSSSKRYVNLAAEQ-----GSNVHLIK--VTQDSITEGYDDSD 297
QY 341 GYTLTIFELNPAGYSIAETPTTFVEAGKYTI-IDGQI----- 378
D 298 GIIRKHAENLIL-YDVFEEVDVKYSGDTWMTVIDKNTVPSLDLTSFALPIKINSGEII 356
QY 379 -----ENPNKEIPEPS--VEAYNDEEFSVLTQWYAKFYAKN--NGSSOVYCFNA 429
D 357 ATGYTNTNKOIITFTDYDYKYNIAKHLKLS-----YIDKSVPNNTLVDYEKI 410
QY 430 DLKSPDSEDGKTWPDF-----TTGEVY--YTHIAGDLEKRYVKKPRDPTFLKH 481
D 411 ALSV-----NKTIVYEXKPNENRTANLOSMTNI---DTKNHTV-----EOTIYNP 456
QY 482 IKRVIKGYREKQALIEYSGLTE---TQBAATQALYYTTFDSAEI-DKDKLMDYGFQD 537
D 457 LR-----YAKETVNINISGDEGSTIIDSTITIKYKYGKQDNLPDSRRIYDSEYED 510
QY 538 MNDSTLAVAKILVEYADSNPQLTDLDFIPNNKYSGLSTQWHPEDLVDIRMED-- 595
D 511 VTND-----DYAQ-----LGNNNVNINFGNIDBPY--IIKVISXYDPN 547
QY 596 KKEVIVPTHNLTLRKTVTGLAGD-----RTKDFHE 626
D 548 KDDYTTIQVTVMQITINEYTGERTASYDNTIAFTSSGQGGDLPEKTYKIGDYVME 607
QY 627 -----TELKNNKQELL-----SOTVKTDTNLEFKDKKATINLKHG--ESI 665
D 608 DVDKDGIQNTNDEKPLSNVLTLYTPDGTSKSVRFDSESKYQFDG-----LKNGLTYKI 662
QY 666 TLQLEBEGYSYLKET-----DSEGYKVKVNSQEVANATV----- 700
D 663 TFE-TPEGYTPPLKHSHTNPDALDSEGNVWVTINGODMTIDSGFYQTPKYSIGNVYWD 721
QY 701 -SKTGITSD-----TLAFEN 715
D 722 TNKDGIOGDDDEKISGVKYLKDN 746

RESULT 3
US-10-617-320-3676
; Sequence 3676, Application US/10617320
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID
; SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE
; THERAPEUTICS
NUMBER OF SEQUENCES: 5206

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CORRESPONDENCE ADDRESS:
ADDRESSER: GENOME THERAPEUTICS CORPORATION
STREET: 100 Beaver Street
CITY: Walham
STATE: Massachusetts
COUNTRY: USA
ZIP: 02354

COMPUTER READABLE FORM:
MEDIUM TYPE: CD-ROM ISO9660
COMPUTER: <Unknown>
OPERATING SYSTEM: <Unknown>
SOFTWARE: <Unknown>
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/617/320
FILING DATE: 10-Jul-2003
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/107/433
FILING DATE: 30-Jun-1998
APPLICATION NUMBER: 60/085131
FILING DATE: May 12, 1998
APPLICATION NUMBER: 60/051553
FILING DATE: July 2, 1997
ATTORNEY/AGENT INFORMATION:
NAME: Ariñello, Pamela Deneke
REGISTRATION NUMBER: 40,489
REFERENCE/DOCKET NUMBER: GTC-011
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781)893-5007
TELEFAX: (781)893-8277
INFORMATION FOR SEQ ID NO: 3676:
SEQUENCE CHARACTERISTICS:
LENGTH: 1769 amino acids
TYPE: amino acid
MOLECULE TYPE: linear
HYPOTHETICAL: YES
ORIGINAL SOURCE:
ORGANISM: Streptococcus pneumoniae
FEATURE:
NAME/KEY: misc.feature
LOCATION: (B) LOCATION 1...1769
SEQUENCE DESCRIPTION: SEQ ID NO: 3676:
US-10-617-320-3676

Query Match
Best Local Similarity 18.6%; Pred. No. 0.34;
Matches 161; Conservative 112; Mismatches 268; Indels 325; Gaps 43;

OY 145 RINGDELNOK-LRAVY-----YNGHP-----QANGIMEGLEPLNAIVTQEA 187
D 130 KVVYDTIOSKVLKAVIDQAPPRVKEYTLNGHTLPGVOQOFNOVF-----INNHRITBE-V 383
OY 188 WYSDNAPISNDSFRESSENLVS--TSOLIMHOAL-----KOLIDPLATKMPKOV 240
D 384 TYKLINE--TTAETLMLKRDADALINAEVYRLOVDNOLHFDVTKIVNHOVT--PEOK 439
OY 241 PDDFO-----LSIFESDEKGDYKNGYONLLSGGLVPTKPTPGDPMPPNPQ 288
D 440 IDDERKLLSSISFLGNLVSVDQGTAKFD-----GATMNNHTVSSDDHIDVTNP 491
OY 289 QTTSVLRKTAIGDYS--KLEGATLQLT-----GDN-----VNSFOARVSSNDIG----- 333
D 492 MKD--LAKGYMYGVSTDKLAGVWSNSONSNGSGSDMTWRLTAYKETVGNANVYGHSS 549
OY 334 -----ERIEISDGYTYTLE-LNSPAYSTAE 358
D 550 EMOWEKAYKIVPEPTRELPASAKVVTEDANADKKVMDGALATYSIMNPGWKEVYK 609
OY 359 PTFKVEAGKVTYII--DKQIENP-----NKEIVEPYSEAYVND- 396
D 610 DIT-----AYRIAMNFGSQANPNPLMTLIDGIIKINLHTDGLGQVLLKYGSGEHDG 662
OY 397 -----FEESVLTONTAKFY-----YAKNKGSSQVYVYCFNAD 430

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D 663 HLNAYADIGKRIGVEDKTLIEK--AKKYGHGLIHVNASFTYESKTFENKIL----- 714
OY 431 LKSPDSEDEGKTMPTDFTTGEVYKTHIAGR-----DLFKYTVPRD-----T 473
D 715 RKNPDGSYSYGMNMLDQGINIDAAVYDLAHLGRLAWMEDLKKLGGDLPIYDVVNGOSG 774
OY 474 DPTDFLKH--KVIIEKGR--EKGQA-----IESGLTEQLRAATQALAI 515
D 775 DNGAMATHVLAKEINKQWFRALIEWGHGEYDSTFHHMADLTGTYTNGKINSALTREI 834
OY 516 YFTDSA-----ELDKDKLNDYHGFQMDN-----STLAVAKILVEYAQ- 554
D 835 RNHOKDAMWGDYRSTYGGAANPILLGYSMKDFEWMQGRSDYNGVTNLFADVWTKFQ 894
OY 555 -----DSNPOLTDLDFIPNNKYQSILGTQWHPEDLVIIIMEDKREVI-----PV 602
D 895 FTYSKWEKNGFTVMTD-----NGSTY-----KMPDEMRELVADADNNKVVYTRKSNDV 942
OY 603 THNLTLRKYV-----GLAGDRKDFHFEIELKNNKQEL--- 636
D 943 NSPLYRRTVYTLNGRVIODGSAYLTPNNMDANGKRLSTDKKMYVFNTQAGATTWTLP 1002
OY 637 -----LSQTVKTDKTNLEFKDKGATINLKHGSLTLQGLPEGYSLVKREND--- 682
D 1003 WAKSKVLYLKLTDGCKTEBEDLVKDGKITLDLILANDQYVL-----YSKQITNEMS 1054
OY 683 -SEG---YKRVNSOEANATV---SKTGIT---SDPTLAFENNEPV----- 720
D 1055 WSEGMIHYLDGFNSGTLKHWIISGDASAEIVKSGANDMLRIGGNKEKVSLLQKLG 1114
OY 721 -----VPTGYDQKINGLALITVAG 740
D 1115 PNTKYAVYGVGNRSNMAKASITVNTG 1140

RESULT 4
US-10-333-002-19
Sequence 19, Application US/10333002
GENERAL INFORMATION:
APPLICANT: Adderson, Elisabeth
TITLE OF INVENTION: Group B Streptococcus Polypeptides Nucleic Acids and Therapeut
FILE REFERENCE: 2511-1-001 (SJ-0039)
CURRENT APPLICATION NUMBER: US/10/333/002
CURRENT FILING DATE: 2003-07-08
PRIOR APPLICATION NUMBER: PCJ/US01/24795
PRIOR FILING DATE: 2001-08-08
PRIOR APPLICATION NUMBER: US 09/634,341
PRIOR FILING DATE: 2000-08-08
NUMBER OF SEQ ID NOS: 37
SOFTWARE: PatentIn version 3.1
SEQ ID NO 19
LENGTH: 560
TYPE: PRT
ORGANISM: Streptococcus agalactiae
US-10-333-002-19

Query Match
Best Local Similarity 24.3%; Pred. No. 0.07;
Matches 103; Conservative 40; Mismatches 130; Indels 150; Gaps 26;

OY 386 VEPY-SVEAYNDFEESVLTQ--NYAKFYAKKNGSSQVYCFNA---DLKSPDSED 439
D 72 VNPYGSIRPN-----FSGAVYQDINLRIM--RKAGYHIIISDAAGTGKRALDA-S 123
OY 440 GGTWPTDFTTGEVYKTHIAGRDLFKYTVKPRDTPDTFLKHKKVLEKYGREGQALEY 499
D 124 GQQLQTSNEPDPDPSYDGDGSHALLR-----RPTMPD-----GYRFRGW--WY 164
OY 500 SGLTETQIARATQALAIYFTDSAEKDQ-----KLKD-----YHGF 535

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Db 165 NG-----KIYNPYDSIDDAHLADANKNITIKPVIIPVGDIKLETSIKYNGN 212
QY 536 GDMNDSTLAVAKILVEYAODSNPPOLDLDFIPNNKKY-----QSLIGTOW--HPEDLVDI 590
Db 213 GGRVNGNANV-----TQVETPRMELNSTTTIPENQYFTRTGYNLIG--WHHDKDLADT 264
QY 591 IRME-----DKKEVI-----PYTHNLIRKTYVTLGAGRTKDFHEIEILKNN 632
Db 265 GVEFTAGOSIGIDNNLDATNLTLYAWQPKREYTVGSKTVVGLDEDEKTRDFL-----N 318
QY 633 KQELLQYKTDKTNLEFKDKATINLKHGESLTLQGLPBGYSYLKKEIDSEGYKAYVNS 692
Db 319 PSETLQO-----ENPLRQO--TKEEK-----VPYGTISISIDEQAYDEKVSSEI 362
QY 693 QE-----VANATVSKTGTS-----DETLAFENKKEPVPTGVDOKI-----NG 731
Db 363 TENKLTATGEADKTYDATGLQSLVSGDVLSFTN-----TRIKQKVRLOKAYVENDNN 415
QY 732 YLA 734
Db 416 FLA 418

RESULT 5
PCT-US02-37235-44
; Sequence 44, Application PC/TUS0237235
; GENERAL INFORMATION:
; APPLICANT: Handfield, Martin
; APPLICANT: Hillman, Jeffrey
; APPLICANT: Proculuske-Pox, Ann
; TITLE OF INVENTION: Identification of Actinobacillus actinomycetemcomitans Antigen 1
; FILE REFERENCE: MBH01.662A
; CURRENT FILING DATE: 2003-06-16
; NUMBER OF SEQ ID NOS: 234
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 44
; LENGTH: 1531
; TYPE: PR
; ORGANISM: Actinobacillus actinomycetemcomitans
PCT-US02-37235-44

Query Match
3.3%; Score 131.5; DB 1; Length 1531;
Best Local Similarity 20.0%; Pred. No. 0.45;
Matches 179; Conservative 120; Mismatches 323; Indels 275; Gaps 47;

QY 39 ALVTSNMGAKTYVGLVESSTPNAINDSS-----SEYKRYGSESTYVKGHPYKQFRRVAH 92
Db 541 ANTTATTNGSVILG--NSSITGSHPSVSVSATVNGYTGFTGVKESGHEVSI----- 594
QY 93 DLKVNLEGRSYOVYCCFNLKAAPLPGSDSSVKKWKYKHHDKISKFEEDVAMSPRITDELN 152
Db 595 -----GSKGNRQIKNV--AAGNVANANST-----DAVNS--OLFVAVSRV---EGG 634
QY 153 OKLRAMVNGHPONANGIMEGLEPIINAIRV---TOEAVWYSDNAPISNDE--SEKRESE 208
Db 635 WQTSVGVNGNGAASATATIKPSNQVKLAGKNLAVONGNINFPFSQENVTFINVTT 694
QY 209 SNLVSISQSLMRQALKO-----LIDPNLTKMPKQVDPDFOLSTFESEDKGKYN--KGTYQ 263
Db 695 QDLTAIGNTVKNFVSQNGTINMGNNRITGVAEGTQDD-----DAVNFQKOLK 742
QY 264 NLLSG-----LVPTKPPGDDPMP-----NQPOTSVILIRKAYALGYSKLLBGA---TIO 313
Db 743 SLIGSASTETIYEKKAQAGDENLADISVANGKAGDMGAKTEVSKRAVOAARAEAYK 802
QY 314 LTGD---NVNSFO-----ARVSSNDIGERIELS-----DGYTITLE--LNSPAGYS 355
Db 803 VNGSAPINYNKTDVNGVDITYAVTFNGTEAKSIPLYTKANGSGDKTYMLDKGINTNGMM 862
QY 356 IAEPI-----TFKYVAGKYVTI-----IDGQIENPNKEIIVEPYVVE 392

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Db 863 TTSASVANDGVKYVDNLSTILKVEDGKAAYAGPTGNGANGTODSGVAATVKNVREALNNA 922
QY 393 AY-----NDEEES-----VLTONVAKFYAKKKNSSQYVCE 427
Db 923 AMTITASKSDGEVYVANSANSVKNKGDVITYDAGKNITKITQDKKFSATADNVEFTVTTG 982
QY 428 MADLK--SPDSEDEGKTWPPDFTTGEVYKTHA-----GRDLFKYTVKPR-- 471
Db 983 NTKLTGNNGVEITNGPKLTQGVAGGKKITTNVADGVIAANSKDAVNGQLFAETAKAKTT 1042
QY 472 -----DTDPDTLKH-----IKVIEKGYRKGGAIE-----YSGITEQL-- 507
Db 1043 VEKGDNNIQTSTETADGHNKYNKVALNPSLTVGPRTHGHTIDGNGGYITGLTNTSWTG 1102
QY 508 -----RAAT--OLAIV--FETDSAEI-----PKDKLKDYH 533
Db 1103 APTTGAAATIEDOLSIYDKKFDKNVSLGCGNGSTTEKSLSHNGIKRNKGGSQKVVTS 1162
QY 534 GFQDMNDSTLAVA--KILVEYAODSNPPOLDLDFIPNNKKYQSLIGTQWHPEDLVDI 590
Db 1163 GSGD--DVATVLAQTTRKNKIDNADKDLANITD-----NGKVVITALGA-----V 1205
QY 591 IRMEKK--EVIPTVHNLIRKTY-----TGLAGDRTKDFHEIEIK 630
Db 1206 VKAADSTITVDETDNTGQKTYKIRANIPPEKTMARPGNNTLEGDSANPEKVNKL 1265
QY 631 NN-----KQELLQYKTDKTNLEFKDK--ATINLKHGESLTLQGL-----PE 672
Db 1266 DDLALQOKKANGVYTGDDSLIKVNGKRGSGVALNGKOG--SLALNGKRGANPVITIKTAQGA 1324
QY 673 GYSYLKKEIDSEGYKAYVNSQEVANATVSKTGITSDETLAFENKKEPVPTGVDOKI 729
Db 1325 G-----VNETNPKD--RLMVNNDVATL-----KDGJ-----KFAQGNSEVITKT--LNOKL 1368

RESULT 6
PCT-US03-22113-30
; Sequence 30, Application PC/TUS0322113
; GENERAL INFORMATION:
; APPLICANT: Seattle Genetics, Inc.
; TITLE OF INVENTION: SGA-72M, A CANCER ASSOCIATED ANTIGEN AND USES THEREOF
; FILE REFERENCE: 9632-061-228
; CURRENT FILING DATE: 2003-07-11
; PRIOR APPLICATION NUMBER: 60/395,752
; PRIOR FILING DATE: 2002-07-11
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 30
; LENGTH: 1456
; TYPE: PR
; ORGANISM: Homo sapiens
PCT-US03-22113-30

Query Match
3.3%; Score 131; DB 1; Length 1456;
Best Local Similarity 20.1%; Pred. No. 0.45;
Matches 160; Conservative 126; Mismatches 262; Indels 248; Gaps 44;

QY 54 VESSTFN-----AINPSSSEYRWYGESYV---RGHPYKQ-----PRVAHDRVNF 99
Db 466 VADSLPSRNRITLPALOPPSN-----VGSEHAPLEKDPPLVRESNANKVM--SLKERMD 519
QY 100 GRSYOVY-----CFNLKKAAPLPGSDSSVKKWKYKHHDGISTK-----FEDYAMS 143
Db 520 EPNAEQVYNPQFENIRKRWDLFANSNSNDONKNITTSQKKSAPPNRQKHKEFSDIKIS 579
QY 144 PRITGD--ELNOKLRAMVNGHPQ--NANGIMEGLE-----PNAIRVTQEAUVWYSDNAP 195
Db 580 GKNTHEAVALLPKVKYMAREMEKLNKSGIILQVLDPEITFPLSLR-----KTYQOLP 632
QY 196 ISNPDESEKRESESNLVSQSLMRQALKQULIDPNLTKMPKQVDP-----DFQLSIFE- 250
Db 633 ---GNSSSEKNEVEKN-----TEGIYVVPKBEKBDYSEDEIQESIITK 671

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| | | | | | | |
|---|------|---|----------------------------------|----------------------|-------------|-----|
| OY | 251 | --- | SEDDGDKYKNOYUNLSCGLVPTKPRPG----- | -DPMPRPNQ-- | -PQTSVYLIRK | 297 |
| Db | 672 | NVLSCKDKDIFNDSLOQLKLETSPTPIAPISGKYNHGOVLEPVSSENTPWQCKTD----- | 726 | | | |
| OY | 298 | YALIDGSKLLEGATLQTLGDVNSFSQARVFSSNDIGERIELSDVYTLTEL----- | N | 349 | | |
| Db | 727 | --FEDTEEEVKGPE-KIINEHVD----- | KTYVHKVKRNSLTSADLKLEKATGSP | 775 | | |
| OY | 350 | SPAGYSIAEPIT---FVEAGKYVYTIIDKQIENPN---- | KEIVEPYSVEAYNDEEF | 400 | | |
| Db | 776 | SPLQAKLAPVITGTNSKLEEGRF---- | GKIGEQSHNTSADKREILAPFVRD---- | ETf | 827 | |
| OY | 401 | S----- | VLTONYAKRYYAK----- | NKGGSQVYCFNADLKSPPD- | 436 | |
| Db | 828 | GNTALLKKAESGECOLSTQNLIOVAEDSHPLDPTLSLRKGSF----- | GDVAASPPD | 880 | | |
| OY | 437 | ----- | SEDDGKTMTP----- | DFRT----- | GEVYTHIAGRD | 462 |
| Db | 881 | MLFPGAGHLVPOARVHPVSQMEISTYEVKILPPRPVLNDVSAALQKLGCEWMLSPACRE | 940 | | | |
| OY | 463 | LKTYVPRDTPDPTFLKHKIKYILEKGYREKGAIEYSGLTETOLRAOTOLAIIYFTDSA | 522 | | | |
| Db | 941 | ----- | VGPGEVNPPE-PEAVQPVG----- | SPLNPGVISPWATMDTI | 976 | |
| OY | 523 | ELQDKDKLDVHGFEEDMDNSTLAIVAKILVEYAKQDSNPQOLDLDFEIPNNKYOSLIGF-- | 580 | | | |
| Db | 977 | VPRD---KDFYSSNVVPDKTHEGVSYL---AAQMSPSDQ----- | LSSFASIVAQYG | 10222 | | |
| OY | 581 | QMHEDLVLDIIRMEDKKEVIFPVNTLRLKTVTGLADGRTKDF--HFEIELKN-NKQELL | 637 | | | |
| Db | 1023 | KGLPQEEVEIYR---ETIVQPKSEFLFESAGLEKLLKEETFTFSKYESPDGNSPSKLI | 1079 | | | |
| OY | 638 | SQYVKTDKTNLEF--KQKATINIKHESLTLQGLPBGYSYLVE-IDSEGYKVKVNSOE | 694 | | | |
| Db | 1080 | GSTEPRPRATSECHPELKEVEKAERAPLITESAFDAGFEKLEKTEAPYQPOVSVRE | 1139 | | | |
| OY | 695 | VANATVSKTGITSDET | 710 | | | |
| Db | 1140 | ---ETHEKESQSEQT | 1152 | | | |
| RESULT 7 | | | | | | |
| US-10-346-863-34 | | | | | | |
| : Sequence 34, Application US/10346863 | | | | | | |
| : GENERAL INFORMATION: | | | | | | |
| : APPLICANT: PHELPS, CHRISTOPHER BENJAMIN | | | | | | |
| : APPLICANT: FAGAN, RICHARD JOSEPH | | | | | | |
| : APPLICANT: GUTTERIDGE, ALEX | | | | | | |
| : TITLE OF INVENTION: ADHESION MOLECULES | | | | | | |
| : FILE REFERENCE: 674575-2001 | | | | | | |
| : CURRENT APPLICATION NUMBER: US/10/346, 863 | | | | | | |
| : CURRENT FILING DATE: 2003-01-17 | | | | | | |
| : PRIOR APPLICATION NUMBER: PCT/GB01/03318 | | | | | | |
| : PRIOR FILING DATE: 2001-07-24 | | | | | | |
| : PRIOR APPLICATION NUMBER: GB 0018126.3 | | | | | | |
| : PRIOR FILING DATE: 2000-07-24 | | | | | | |
| : PRIOR APPLICATION NUMBER: GB 0025447.4 | | | | | | |
| : PRIOR FILING DATE: 2000-10-17 | | | | | | |
| : NUMBER OF SEQ ID NOS: 57 | | | | | | |
| : SOFTWARE: PatentIn Ver. 2.1 | | | | | | |
| : SEQ ID NO 34 | | | | | | |
| : LENGTH: 5198 | | | | | | |
| : TYPE: PRT | | | | | | |
| : ORGANISM: Caenorhabditis elegans | | | | | | |
| US-10-346-863-34 | | | | | | |
| Query Match 3.3%; Score 130; DB 6; Length 5198; | | | | | | |
| Best Local Similarity 19.1%; Pred. No. 3.3; | | | | | | |
| Matches 170; Conservative 133; Mismatches 343; Indels 244; Gaps 43; | | | | | | |
| OY | 2 | KTRFPNNKLTNLTQRY-LSKNSKRFVTVLGVGFIMTF----- | ALVTSMVGAKT | 49 | | |

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Db 1293 RATGVPEVIRFWNKNGLDKMDEKFFSDNLTGT--LRITYEADKNIDGNKNCVTYMEAGSQ 1331
OY 50 VEGLVESSTPAINIPDSSSEYRWYGESYVGRHPYKOFVYANDLRVNLGESSRYOYYCF 109
Db 1352 MTHVADVQEPRIILIPSTQTN-----NTAAVGD-----RV--ELKCYVEASPASVYWF 1397
OY 110 NLKKAFLPGSSSVKWKWKKHDDGI-----STCFEDYASPRITGBELNQKLRVANYNGHPQ 165
Db 1398 --RGGIAGTGT--KGVYESDGLVYIQASAVED-----ATYYTCAS 1436
OY 166 NANGIMEGLPELNAIR-----VTOEAV-----WYSDNAP 195
Db 1437 NPAGKAENLQVYTIASPDIDDPDYVTOESIKESHPSLYCPVSNPLPQJISWLNDR-P 1495
OY 196 ISNDESKRESSESNLVTSQLSLMKQALQKLDIPNLATKMPK--QVPPDQLSIFSES 253
Db 1496 LIDDTSMKTSDDKRKLHVFAKITDSCGVYCVARNAGEGSKSPQVEYIYPLMLDESKY 1555
OY 254 KGDKYKNGCYOMLSGGLVYTPRPPIRGPDPMPRPNOPTTSVLIRRYAIGDYSKLLEGATLQ 313
Db 1556 KKKVFAK-----EGEEVTLCCPVGSGFP-----VQJIMWVY--DGVVEPKKKYKATLS 1602
OY 314 LTGNQVNSFQARVSSNDIGERIELDOSTYTLTLENSAGSIAEP--ITFYVEAGV 369
Db 1603 NDGLTLH-----FDVSVKO-----EGNY-----HCVAOSKGNILIDIVELSVL 1641
OY 370 YTIIDGKOIENPKIEIPEYVSEAVYNDPEEFSVLTQNYAKFYAKNKGSSQVYVCNA 429
Db 1642 AVPIVG---EDDNLEVFILGRDISLSCD-----LQTESDDKTTTWSLINGS-----ES 1685
OY 430 D---LKSPPDS-----EDGKTMPTDFTTGEVYKTHIAGRDLKFKYTVKPRDTP 475
Db 1686 DRPDNVQIPSGHRLYITDAKPENNKGYM-----CRVNSAGK--AERTTLIDVLEP 1735
OY 476 DTFELKHKKYVLEKGRREGQALIEYSGLTETQDLRAATQALAIYTFDPSAELDKDLKDHGF 535
Db 1736 PVF---VEPYEANOGLKG---NNPILQCCVGTGNPKPTVIMKIDGNDVDSWL----- 1783
OY 536 GDMNDSTLAVKILIEVYKADS-----NPPQLNDLDEPIFN-----NNKYQSLIGTOWH- 583
Db 1784 FDESISLIRIKLGKSKQISCTAENKAGTASRDFIONIAAPFKNGDQETIFRESBT 1843
OY 584 -----PEDLVDIIMREKREVIPTYTN---TLTKRT-----VTGLAG 617
Db 1844 ITLDCPVSLGD-FQITWMOGLPRLTENDAIPTLNTFRILIANRHDHEDITYCVANNATAG 1902
OY 618 DRTDHFHEIELK-----NNKQELL-----SOTVTDKTNLEFKKG---KATIN 658
Db 1903 QVSDKDFVDVQVLEPRIKNAVVTLEINEEELIILTCDAEGNPTPRAKMDPONGDLPRKEAVF 1962
OY 659 LKHGSLTLQGLPREYS--YLVKETDSCGYVVKVNSQOVANATYKSGITGDS----- 709
Db 1963 VNNHITVVANNVTYIHGTGVYCVATNKYGAVKITINHVRKPKPRESELTESELTVNLTR 2022
OY 710 TLAEEENKEPVVPTGVQDKINGYALALYIAGISLIGWG--IHTIRIRKH 757
Db 2023 SITLECDVDAIGVIGISWTVGKRFLEATDEVQVLAGRFLHIYSAKDD 2072

RESULT 8
US-60-490-890-1651
; Sequence 1651, Application US/60490890
; GENERAL INFORMATION:
; APPLICANT: Li, Martha
; APPLICANT: Rupnow, Brent A.
; APPLICANT: Webster, Kevin R.
; APPLICANT: Jackson, Donald
; APPLICANT: Wong, Tai W.
; TITLE OF INVENTION: BIOMARKERS OF CYCLIN-DEPENDENT KINASE MODULATION
; FILE REFERENCE: D0310 PSP
; CURRENT APPLICATION NUMBER: US/60/490, 890
; CURRENT FILING DATE: 2003-07-29
; NUMBER OF SEQ ID NOS: 2779
;

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; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1651
; LENGTH: 461
; TYPE: prt
; ORGANISM: Homo sapiens
US-60-490-890-1651

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| | | | | |
|-----------------------|--------|-----------------|--------|-----------------|
| Query Match | 3.3%; | Score 129; | DB 7; | Length 461; |
| Best Local Similarity | 19.7%; | Pred. No. 0.12; | | |
| Matches | 91; | Conservative | 82; | Mismatches 170; |
| | | | Indels | 118; |
| | | | Gaps | 24; |

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0Y 275 PPTPEDPMP-----PNOPQTSVLIR--KVALGOSKLECATLOLTGDNVNSFCARF 327
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 35 PALPKPKPKPMTSAAVPMNGKODSVSLDQAEWYGDISR-----EYVNDKLEMDMDGT 87
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
0Y 328 SSNDIGERIELSDGTYYLT-----ELNSPAGYSIAETPFKVEAGKYVYTIIDG 376
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 88 LVPRDASTKK--GDYTLTLRKGNKNKLKIKYHBDQKGFSDPLF-----NSVVELLNH 140
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
0Y 377 QIE-----NPKNKEIPEYSVEAYND--PEESVLTQMYAKFYAKNKNSSQVYYCFN 428
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 141 HHESIAQYNPKLVDYALMTFVSRYGODOLVKEKNIDAVGKRLDEYHSOYQERSKEYDRLYE 200
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
0Y 429 ADLSPDSESDGKMTPTDFTTGEVAYTHIAGRDLFKYVYKPRDTPDFLKKIKVIEK 488
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 201 EYTRRSQEI-----QKRRALI---EAFNETIKIFEEOCHQEOCHSKREYIER 243
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
0Y 489 GYREKGALEYSGLTETOLRAATOLAIYFTDSAEILDKLDKYHFGSMDNSTLAVAKI 548
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 244 -FRRGNGNKIEIERI-----MNYDKLKS--RLGETIHOSKMLREOD 280
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
0Y 549 LVEYAKODSNPQOLTDLDEFIPNNKNYOSIGTQWHPEDLVJDIIMBEKKEVIPVTNLT 608
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 281 LKKQALDNK--EID-----KKNNSI-----KPDJLOLRKIND--OHLVWLNHK--- 319
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
0Y 609 RKYVTGLAGDRTKDEHFEIELKNNOKELLSOTVTKTDKTNLEFKDGKA---TINLKHGS 664
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 320 -----GVROKRLNVMJLGIKNEDAD--ENYFINEDENDLPHYDEKTEWVEDINRYOQAD 370
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
0Y 665 LTLOGLEPGYSVLVKEETDSEG--YKKVNSQ--EVANAATVSKT 703
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 371 L-LYKPKPDG-AFLINRESSKKGCGACSVAADGKVCACVLIYST 409
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

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RESULT 9
US-10-286-897-2582
: Sequence 2582, Application US/10286897
: GENERAL INFORMATION:
: APPLICANT: Hyseq Inc
: TITLE OF INVENTION: Novel Nucleic Acid and Polypeptides
: FILE REFERENCE: 784FLPCT
: CURRENT APPLICATION NUMBER: US/10/286,897
: CURRENT FILING DATE: 2002-11-01
: PRIOR APPLICATION NUMBER: US/09/488,725
: PRIOR FILING DATE: 2000-01-21
: PRIOR APPLICATION NUMBER: US/09/552,317
: PRIOR FILING DATE: 2000-04-25
: PRIOR APPLICATION NUMBER: US/09/598,042
: PRIOR FILING DATE: 2000-06-20
: PRIOR APPLICATION NUMBER: US/09/620,312
: PRIOR FILING DATE: 2000-07-19
: PRIOR APPLICATION NUMBER: US/09/653,450
: PRIOR FILING DATE: 2000-08-31
: PRIOR APPLICATION NUMBER: US/09/662,191
: PRIOR FILING DATE: 2000-09-14
: PRIOR APPLICATION NUMBER: US/09/693,036
: PRIOR FILING DATE: 2000-10-19
: PRIOR APPLICATION NUMBER: US/09/727,344
: PRIOR FILING DATE: 2000-11-29
: NUMBER OF SEQ ID NOS: 7143
: SOFTWARE: pf_fl_genes_b Versions 1.0
SEQ ID NO 2582
LENGTH: 993

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; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-286-897-2582

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|-----------------------|------------------|-----------------|-------------|-------------|
| Query Match | 3.28; | Score 128; | DB 6; | Length 993; |
| Best Local Similarity | 20.18; | Pred. No. 0.43; | | |
| Matches 145; | Conservative 89; | Mismatches 232; | Indels 256; | Gaps 35 |

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OY      8Y  UKOFRAVANDR--VNLE-GRSRYOYCFNLKKAPFL---GSDSSYKAKWYKHOISIKKE 138
Db      22  FKLEIRLVHKIGCFNDIESGAVWKQYV---QDLGIPVLNSAGVYNKCAIVKY---LYGFE 75
OY      139  DYAMSPRINGDELINOKLRVAMYNAGHPONANGIMEGLEBLAINRYTOEAVWYSDNAPISN 198
Db      76  EYGRSRNI---EQOMALPEKYVNNKCKOKEBENKE-----IKKKE-----N 113
OY      199  PDE--SEKRESSENLYVTSQLSLMO-ALKOLIDPNLATKMPKQVPPDDFQSLFSESBDK 255
Db      114  ETEIOETKMEENENIIPREKPIEDEIERKENIKPSLSK-----153
OY      256  DKYNKGONLSCGLVPTKPPGPBPMPNOPOTSIVLIKRAYIGSYSKLLEGATQLT 315
Db      154  -----KNLLES-----IPHSDDKEVNIK-----P 175
OY      316  GDNVNSFOARVFSSNDIGERIELSDGYTTELNSPAGYSTAEITFEKVENAGYTLIDG 375
Db      176  EDMEN-----LDKKDDTFRVYD-----ESLNIKVELEE---KA 206
OY      376  KQIENPNK-----ELVEPYSEAYNDFEERSVLTONYAKFYAAKKNG 419
Db      207  KSDDETNRKEDEDEDEEEEEEFEEDDEDODDNNEEFEFCYPPCMKVQVRYGRKN- 265
OY      420  SSOVVCYCPNADLKSPDESDEGKTMTPTTGEYKY-THINGRLPFY-----TVK P 470
Db      266  --OKM--EKSIS--DSDVEG-----GEVLYLHYCGMAY-RIDEMIKADITVR 308
OY      471  RQDTPRPLFKHIKVIKCYERKGOAIEYSGLTETQLNAATOLAIVYFTDSAEIDKDKL 530
Db      309  ADKNVPR-KIKRKKIKNKLDKDKDDEKYS- KNGKLR-----RLSKRPFQ 352
OY      531  DYHGFQMDNSTLNAKILVEYAOQSNRPQLTDLDFIIPNNKKQSLIGTQWHPREDLVI 590
Db      353  -----TJPSPEWYSKLDLTDAKNSDPAHAKISIEI-----TSILNGLOASEGAE 397
OY      591  IRMEDKKEVIRPVHNLTLKTYTGLAGORKDHFHEILKNNKOLLSQYVTKDKNTLEP 650
Db      398  SEQEDGAGQODMNN-----GKEKSIDH---LTNNRDLISKEBONSLSLE 443
OY      651  KQDKATINLKHGESILQGLRPGYSYLAKETDSBEGYKVVASQCVANAATYS----- 701
Db      444  NKYHADLVISKPSKSPERLKRDIIVLSBEDPDYEEDVTKKRKKVAKDITDIDKSKPQIKR 503
OY      702  -----KTG-----TSDETLAEENN-----KEPVPTGYDQKT 729
Db      504  GKRRCYNTFECLTKTSPKGEKKAANKKESLCEMENSNSGSDDEEETKAKMTPT---KKY 560
OY      730  NG 731
Db      561  NG 562

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RESULT 10
US-10-258-898A-2582
: Sequence 2582, Application US/10258898A
: GENERAL INFORMATION
: APPLICANT: Hyseq Inc
: TITLE OF INVENTION: Novel Nucleic Acid and Polypeptides
: FILE REFERENCE: 784FLPOT
: CURRENT APPLICATION NUMBER: US/10/258,898A
: CURRENT FILING DATE: 2002-10-29
: PRIOR APPLICATION NUMBER: US/09/488,725
: PRIOR FILING DATE: 2000-01-21
: PRIOR APPLICATION NUMBER: US09/552,317

```

| | | | | |
|-----------------------|------------------|-----------------|-------------|-------------|
| Query Match | 3.28; | Score 128; | DB 6; | Length 993; |
| Best Local Similarity | 20.18; | Pred. No. 0.43; | | |
| Matches 145; | Conservative 89; | Mismatches 232; | Indels 256; | Gaps 35 |

| QY | 730 | NG | 731 |
|---|-----|---|--------------------------------|
| Db | 561 | NG | 562 |
| RESULT 11 | | | |
| US-10-408-765A-2576 | | | |
| Sequence 2576, Application US/10408765A | | | |
| GENERAL INFORMATION: | | | |
| APPLICANT: Ghosh, Soumitra S. | | | |
| APPLICANT: Fahy, Eoin D. | | | |
| APPLICANT: Zhang, Bing | | | |
| APPLICANT: Gibson, Bradford W. | | | |
| APPLICANT: Taylor, Steven W. | | | |
| APPLICANT: Glenn, Gary M. | | | |
| APPLICANT: Warnock, Dale E. | | | |
| TITLE OF INVENTION: TARGETS FOR THERAPEUTIC INTERVENTION | | | |
| FILE REFERENCE: 660086.465 | | | |
| CURRENT APPLICATION NUMBER: US/10/408.765A | | | |
| CURRENT FILING DATE: 2003-04-04 | | | |
| NUMBER OF SEQ ID NOS: 3077 | | | |
| SOFTWARE: FastSeq for Windows Version 4.0 | | | |
| SEQ ID NO 2576 | | | |
| LENGTH: 1090 | | | |
| TYPE: PROT | | | |
| ORGANISM: Homo sapiens | | | |
| US-10-408-765A-2576 | | | |
| Query Match | | | |
| Best Local Similarity 18.3%; Score 128; DB 6; Length 1090; | | | |
| Matches 153; Conservative 125; Mismatches 280; Indels 278; Gaps 42; | | | |
| QY | 41 | VTSMVGAQTVFGLVESSTPNAINEDSSSEYKRWY--- | GYESYRGHPHYQFVYAHDLRV 96 |
| Db | 311 | VFAPVEKRSVLLLEETIVTN--NSNALESHEFYGAASFTFSQGP----- | I 356 |
| QY | 97 | NLESSRKYCYCFLLKKAFLGSDSSYK----- | WYKKGHSIRKFDYAMSPRITGDEL 151 |
| Db | 357 | DISTRKHQILIF--KEENP--NNDITVLKGSSTANENTKTPSAVNAVAKATISAREDPNKL | 413 |
| QY | 152 | NOKLRAVMYGHGPONANGIMEGLEPLNAIRVTOEAVYYSDNAIPNSPDESFKRESSENLT | 211 |
| Db | 414 | KTNLADAL--HGSS-----IIPLELVANIIPD----- | DNLSEISKDKR--EANNRASI 457 |
| QY | 212 | VTSQSLSLAKQALKQILDPNLATKMPKQVPPDPOLSTIFESEDKDKTKNGYQNLISGL- | 270 |
| Db | 458 | IFTS---MNEPRTSTVVDSTVPSTEGSYSGDFML-- | PGED--NVKSRGQSILRTNML 508 |
| QY | 271 | ---VPTKPTPGGPRMPNQPTTSVLIRKRYAIGDYSKLLEGATL-- | QLTGDNVNSFQ 323 |
| Db | 509 | LLOSLNENPETPG--LKRDNSEFSESTI----- | TRSEELERATEYVGAINGNVPEKQ 558 |
| QY | 324 | ARVFSNN---DIGERIELSDGTITLNLNSPAGYSIA---EPITFEKVEAGKYTT--- | 371 |
| Db | 559 | VIIQTGNIHSYPLAMQVSPLESTESNNPTDSEINFSTSVNGNPTGNETETEDELYSKSR | 618 |
| QY | 372 | -----IDGKQ----- | 377 |
| Db | 619 | ALIEKAFSQIKESONSYYKIRKIANLSQOEDPATMFKLSHTNTTVLLIPAIWKIPPSATKL | 678 |
| QY | 378 | --IENPKKEIPEPSV--EAYNDFEE----- | FSVLTITQNVAKFYAKKKNNGSSQVY 425 |
| Db | 679 | NLSNNSDVEDDEEHMESEAGNSFSEDTSKLKDSSFYKVPDDTSKSAAPRLKISSVYS | 738 |
| QY | 426 | CFNADLSPPDSESG----- | GKTMT-- |
| Db | 739 | TSLTSEASRPDQSSAFHIRVSNTRGSSVTNPATLHGLQWPRLLPSDFTSMADPIYELL | 798 |
| QY | 454 | KYTHIAGRDLEF--TYVKPRDT----- | DDDTFLKHKKYIEKGXR 491 |
| Db | 799 | TPVYIMKDKITKIDYSEFLPETIIPSDQVYIILPITTSSENSMASTKEINLFK--HKDFI | 856 |


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Db 783 SPLQAKLAPVITGNSKLEGRFF-----GKGEOSHNTSADKREILAPFVRD-----ETF 834
Qy 401 S-----VLTONAKFYAK-----NKGSSQVYVCFNADLKSPD- 436
Db 835 GNTALLKKAESGECOLSTONLQMAEDSHLPTSQLSRKGSF-----GDVASPPD 887
Qy 437 -----SEDCGKMTF-----DFTT-----GEVYTHIARD 462
Db 888 MLFPQDAHLVQARVHSQTEISEVEKVIILPPRPVLNDVSAALQCLGCEWLSLPAGRE 947
Qy 463 LKRYTVKPRDPTFLKHKIKVIEKGRKGOALEYSGLTETOLRAATOLAIYFTDSA 522
Db 948 -----VGRGEVNP-EFPAVQPV-----SPLNPGVISPMAFMDTI 983
Qy 523 ELDKDKLDYHFGDMNDSTLAVAKILVEYADSNPOLTDLDFIPNNKKYQSLIGT-- 580
Db 984 VPRD---KDFYSNVVDPKTHEVGSYL---AAQMSPPDOT-----LSFASIVAYOG 1029
Qy 581 QMHPEDLVDIIRMEDKKEVIVPTHNLTRKTVTGLAGDRTKDF--HFETELKN-NKOELL 637
Db 1030 KGLQOVEVEIYR---ETIVQKSEFLERSAGLEKLEKETETFPBSKYESDGNLSPSKLI 1086
Qy 638 SQYVKTDTNLEF--KDGKATINLKHGSLTLQGLPEGYSYLVKE-TDSEGYKRVKNSOE 694
Db 1087 GSTEPRRATSECHPEELKEVEKAEAPLITESAFDAGFEKLEKEITETAPPYQPOVSURE 1146
Qy 695 VANATVSKTGITSDFT 710
Db 1147 ---ETHEKESQSEOT 1159

```

RESULT 14

```

US-09-200-650E-3
; Sequence 3, Application US/09200650E
; GENERAL INFORMATION:
; APPLICANT: Patil, Joseph M.
; APPLICANT: Foster, Timothy J.
; APPLICANT: Hook, Magnus A.O.
; APPLICANT: Eichlin, Deirdre M.
; APPLICANT: Perkins, Samuel L.
; TITLE OF INVENTION: Extracellular Matrix-Binding Proteins from Staphylococcus aureus
; FILE REFERENCE: P06283US2/BAS
; CURRENT APPLICATION NUMBER: US/09/200,650E
; CURRENT FILING DATE: 1998-11-25
; PRIOR APPLICATION NUMBER: 60/066,815
; PRIOR FILING DATE: 1997-11-26
; PRIOR APPLICATION NUMBER: 60/098,427
; PRIOR FILING DATE: 1998-08-31
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 930
; TYPE: PRT
; ORGANISM: Staphylococcus aureus
US-09-200-650E-3

```

Query Match 3.2%; Score 125.5; DB 5; Length 930;

Best Local Similarity 19.4%; Pred. No. 0.59;

Matches 115; Conservative 71; Mismatches 215; Indels 193; Gaps 26;

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Qy 183 TOEAVVYSDNAPISNPDESFRSESNLVSTLSLKRQALQKQIDNLATKMKQVPD 242
Db 86 TOTAT---ADQPKYMSASAYKKESSNMQSPQNTANOS-----TTKTSNVTTN 132
Qy 243 DFOLSIFESEDKGDKYKNGYQNLISGLVPTKPPTPGPPMPNPQPTSVLIRKAYICD 302
Db 133 DKSSITYSNET--DK-----SVLQAKDVSTTPKTTTIKPRILNMAMVTVAAPQ----- 180
Qy 303 YSKLLEGATLQLTGNVNSFQARV-FSSNDIGERIELSDGYTTLTE-----LNSPAG 353
Db 181 -----QGTNVND---KVHFSNIDIAIDKGVHNOQTGKTEFNATSSDVKLKAN 225
Qy 354 YSIAPFI-----TFK-----VEAGKVYITIIQKQIENPNKELVEEYVSEAVYNDPEFSLV 403

```

```

Db 226 YTIIDSVAGSDFTFFKYGQYFRPQSVRLPSQONLYNNOGNI---AKGITDSTINTTYY 282
Qy 404 TTONTAKFY-----YAKKNSS-QVYCFNADLKSPDSED-----GKTYMP 446
Db 283 TETNYVDQTYNVRGSEFOVAFARKNATTDKTAYMKEVTLGNDYSEELIYDGNKKAOP 342
Qy 447 DETGEVAYTHIAGDLKRYTKPRDT-DPOTFLKHKIKVIEKGRKGOALEYSGLTET 505
Db 343 LIISTNYINNEDELSSNMRAVYNQPKNTYTKOTFEVNL-----TGKFNPMANFK----- 392
Qy 506 QLRATOLAIYFTBSAELDCKLDYHFGDMNDSTLAVAKILVEYADSNPOLTDL 565
Db 393 -----IYEVDQNP-----VD 404
Qy 566 FEPNNKKYQSLIGTQWHPEDLVDIIRMEDKKEVIVPTHNLTRKTVTGLAGDRTKDFH 625
Db 405 SETPDTSKLDV-----TDQFDVYISNDK-----TATVDLMKGOT----- 440
Qy 626 EELKNNKOELLISO-----TYKTDKTNLEFPDGKATINLKHGSLTLQ 669
Db 441 -----SSNKQYITIQVAYPDNSSTDNGKIDYITDITDKTYSMSNSYSNVN---GSSITANG 492
Qy 670 LPEGYS---YLVKETDSEGYKRVKNSQEVANATV---SKTGITSDETLAFENK 717
Db 493 DQKKYNLDYWEEDINKKG-KODANEKGIKGYVILKDSNGKELDRTTDDENGK 545

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RESULT 15

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US-10-617-320-3251
; Sequence 3251, Application US/10617320
; GENERAL INFORMATION:

```

```

; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID
; SEQUENCES RELATING TO STREPTOCOCCUS PNEUMONIAE
; THERAPEUTICS

```

```

; NUMBER OF SEQUENCES: 5206

```

```

; CORRESPONDENCE ADDRESS:

```

```

; ADDRESS: 100 Beaver Street

```

```

; CITY: Waltham

```

```

; STATE: Massachusetts

```

```

; COUNTRY: USA

```

```

; ZIP: 02354

```

```

; COMPUTER READABLE FORM:

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; MEDIUM TYPE: CD-ROM ISO9660

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; COMPUTER: <unknown>

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; OPERATING SYSTEM: <unknown>

```

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; SOFTWARE: <unknown>

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```

; CURRENT APPLICATION DATA:

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```

; APPLICATION NUMBER: US/10/617,320

```

```

; FILING DATE: 10-Jul-2003

```

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; PRIOR APPLICATION DATA:

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; APPLICATION NUMBER: US/09/107,433

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```

; FILING DATE: 30-Jun-1998

```

```

; APPLICATION NUMBER: 60/085131

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```

; FILING DATE: May 12, 1998

```

```

; APPLICATION NUMBER: 60/051553

```

```

; FILING DATE: July 2, 1997

```

```

; ATTORNEY/AGENT INFORMATION:

```

```

; NAME: Ariniello, Pamela Deneka

```

```

; REGISTRATION NUMBER: 40,489

```

```

; REFERENCE/DOCKET NUMBER: GTC-011

```

```

; TELECOMMUNICATION INFORMATION:

```

```

; TELEPHONE: (781)893-5007

```

```

; TELEFAX: (781)893-8277

```

```

; INFORMATION FOR SEQ ID NO: 3251:

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; SEQUENCE CHARACTERISTICS:

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; LENGTH: 1972 amino acids

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; TYPE: amino acid

```

```

; TOPOLOGY: linear

```

```

; MOLECULE TYPE: protein

```

```

; HYPOTHETICAL: YES

```

ORIGINAL SOURCE:
ORGANISM: Streptococcus pneumoniae
FEATURE:
NAME/KEY: misc feature
LOCATION: (B) LOCATION 1...1972
SEQUENCE DESCRIPTION: SEQ ID NO: 3251:
US-10-617-320-3251

Query Match 3.2%; Score 125.5; DB 6; Length 1972;
Best Local Similarity 19.5%; Pred. No. 1.7;
Matches 153; Conservative 120; Mismatches 297; Indels 213; Gaps 37;

```
QY 9 KLNTLNTQRYL---SKNSKRTY--TLVGFLMIFALYTSVAGATVGLVESSTPNA 61
Db 93 KLSNQQLAELPNTGSKNEROALVAGASLALGILIFAVSKKKYKNTVLHLV----- 145
QY 62 INPDSSSEYRWYGESIVRGHPYKOPRVADHLRVNLEGSRSYOVYCFNLKAPPLGSDS 121
Db 146 -----LVAG-----IGNGVLVSVALEHLLNNTDYELTSGEKL 181
QY 122 SVKKWYKHH-----DGISTKFEDYAMSPRITGDELNOKLRAYMYN-----GHPQAN 168
Db 182 PLKREISGYTYIGIKGKTT--SFEVSNQEKSAATPTKQKVDYNTVTFNVDPSTVQ 239
QY 169 GIMEGLEPLNAIRVTOEAVWYYSNDAPISNPDESFKRESNLYSTSQLSLMRQALKOLI 228
Db 240 AIOE-OTPVASSTKTEVOYVEKPESTELINPRKEKQSDSQ-----EQLA 284
QY 229 D-PRLATKMPKQVDDQOLSFESSEDKGDKYKNGCYONLSGGLVPTKPTPGDPPMPNQ 287
Db 285 EHKNLLETKEEK-----ISPREKTGVNTLNPQDEVLSGOL-----NK 321
QY 288 POTTSLIRKRYAIG---DYSKLEGATLOLTGDNVNSFOARVFSSNDIGERIELSDGTYT 344
Db 322 PE---LLYRETEIKIDPOE-----EIQENPDIVEGI-VRKQEGKLGKVEI-----VR 368
QY 345 LTELNSP-----AGYSIABPTFEKYAGRVYTLIDGKOIEN--PNKEI-----VE 387
Db 369 IFSVKNKEVAREIYSTTAPIPRIYVEKGTAKTOVIREQPEVGEHKGQSGALIVEPAIQ 428
QY 388 PYVEAVANDFEESVLTONTAKFYAKNKGSSQVYVCENADIKSPDSEDEGKTMFPD 447
Db 429 PELPEA-----VSDKGVPVOPALSK-----AVITDKGETEVOPESPD---TVVSD 472
QY 448 FTTGEVAYTHIAGDLEKRYTKPRDTPDFLKHKKIVIEKGYREKGOATEY----- 499
Db 473 --KGEPEQV---APLEPKNGIEQVAKPET---PVEKTKEOG-PEKTEEVYVAKTEETPV 522
QY 500 ---SGLTE-TQLRAA---TOLAITYFTDSALDKLIDYHGFQDMN--DSTLAVAKILV 550
Db 523 NPNEGTEGTSIQEAENPVQPAEESTJNSEKVSPTTSSEWNGEBSNPDSSTSVG---- 578
QY 551 EYADDSNPQTLTDLDFIPNNNKYQSLIGTOWHPED--LYDIIEMDKKEVIYPV----TH 604
Db 579 -----ESNKPPEHND---SKNENSEKIVEEYVNPNEGTEGTSNQETEKVPQPAELQTN 630
QY 605 NLTLRKVTYGLAGDRTKDFHETELKNNKQELLQOTYKTDKTNLEFKDGR----- 654
Db 631 SGKIANENTGEVSNKRPDSKPPVESNQPEKNGTATPENGNTTSENQOTEPEPKLELR 690
QY 655 -----ATINKHGESLTLOGLPEGYSYLVKETEDESGYKVKVNSQEVANATVSKTGIT 706
Db 691 NWSDIELYQTNCTYRQHVSLDGIPE-----NTDJYFVKVKSAPKDVYIYPVASIT 741
QY 707 SDE 709
Db 742 EEK 744
```

Search completed: August 19, 2003, 15:29:15
Job time : 40 secs